

Notice of Allowability

Application No.

10/696,648

Examiner

Raj K. Jain

Applicant(s)

HADDAD ET AL.

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 2/11/08.
2. ☒ The allowed claim(s) is/are 1,3-9,13-17 and 21 renumbered 1-14.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Claims 1, and 4, are allowed. The prior art discloses a WLAN system employing an access point capable of communications with one or more devices in one or more networks having differing technologies and/or data rates appropriately.

The prior art however fails to disclose an access point communicating data with at least one communications device over downlink and uplink channels using different first and second wireless technologies respectively, wherein each of the wireless technologies is one of 802.11x, Hiperlan2, Bluetooth or Home RF; and wherein the first wireless technology arranged to be used for the downlink channel is arranged to operate at a first frequency bandwidth and at a first data rate, and the second wireless technology arranged to be used for the uplink channel is arranged to operate at a second frequency bandwidth non-overlapping with the first frequency bandwidth, and at a second data rate lower than the first data rate, and a controller arranged for controlling data communications over the downlink channel and the uplink channel to maximize the usage of the bandwidth of downlink channel.

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Claim 21 is allowed. The prior art discloses a WLAN system employing an access point capable of communications with one or more devices in one or more networks having differing technologies and/or data rates appropriately.

The prior art however fails to disclose an access point communicating data with at least one communications device over downlink and uplink channels using different first and second wireless technologies respectively, wherein each of the wireless technologies is one of 802.11x, Hiperlard2, Bluetooth or Home RF, and wherein the first wireless technology arranged to be used for the downlink channel is arranged to operate at a first frequency bandwidth and at a first a data rate, and the second wireless technology arranged to be used for the uplink channel is arranged to operate at a second frequency bandwidth non-overlapping with the first frequency bandwidth, and at a second data rate lower than the first data rate, and a controller arranged for controlling data communications over the downlink channel and the uplink channel to maximize the usage of the bandwidth of downlink channel and, wherein data is communicated between the access point and the at least one mobile communications device simultaneously on both said downlink and uplink channels using said different first and second wireless technologies.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raj K. Jain whose telephone number is 571-272-3145. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

February 11, 2008

Raj K. Jain

/Raj K. Jain/ 

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